

**AMENDMENTS TO THE CLAIMS**

1. (original) A method for custom fitting an article to a human being comprising the steps of:

defining a first set of human body dimensions to be reported by the human being;

defining a second set of human body dimensions to be inferred from said first set of human body dimensions;

providing a first mathematical model relating said second set of human body dimensions to said first set of human body dimensions, wherein said mathematical model has been generated by statistical analysis of a human anthropometric database;

obtaining a first set of values of said first set of body dimensions by report of the human being;

computing a second set of values of said second set of human body dimensions from said first set of values of said first set of human body dimensions by using said first mathematical model;

defining a set of article dimensions;

providing a second mathematical model relating said article dimensions to said first set of human body dimensions and said second set of human body dimensions;

computing a third set of values of said set of article dimensions from said first set of values of said first set of human body dimensions and said second set of values of said second set of human body dimensions by using said second mathematical model.

2. (original) The method of claim 1, wherein said first set of human body dimensions comprises one or more dimensions selected from the group consisting of waist, inseam, height, weight, shoe size, seat shape, jacket size, shirt neck size, and shirt sleeve length.
3. (original) The method of claim 1, wherein said first set of human body dimensions comprises waist, inseam, height, weight, and shoe size.
4. (original) The method of claim 1, wherein said second set of human body dimensions comprises one or more dimensions selected from the group consisting of seat and outseam.
5. (original) The method of claim 1, wherein said second set of human body dimensions comprises seat.
6. (original) The method of claim 1, wherein said human being is male.
7. (original) The method of claim 1, wherein said human being is female.
8. (original) The method of claim 1, wherein said article is a garment.
9. (original) The method of claim 1, wherein said article is selected from the group consisting of a pair of pants, a pair of jeans, a sweater, a skirt, a dress, a shirt, a blouse, a vest, a jacket, a coat,

a pair of knickers, a pair of leggings, a jersey, a pair of shorts, a leotard, a pair of underwear, a hat, a cap, and a swimming or bathing suit.

10. (original) The method of claim 1, wherein said article is a pair of pants.

11. (original) The method of claim 1, wherein said first mathematical model comprises a linear model.

Claims 12-19 (cancelled).

20. (original) The method of claim 1, comprising the additional steps of  
defining a set of consumer preferences,  
obtaining the values of said consumer preferences by report of the human being,  
adjusting said second mathematical model on the basis of said consumer  
preferences.

Claims 21-23 (cancelled).

24. (original) The method of claim 1, wherein said statistical analysis comprises cross-validation.

25. (original) The method of claim 1, wherein said statistical analysis comprises principal components multiple linear regression.

Claims 26-31 (cancelled).

32. (original) The method of claim 1, wherein said set of article dimensions comprises one or more dimensions selected from the group consisting of garment waist, seat-waist differential, garment seat, seat shape, garment inseam, and bottom opening.

33. (original) The method of claim 32, wherein said set of article dimensions comprises garment waist, seat-waist differential, garment seat, seat shape, garment inseam, and bottom opening.

34. (original) The method of claim 33, wherein garment waist is computed from consumer-reported waist.

Claim 35 (cancelled).

36. (original) The method of claim 33, wherein seat-waist differential is computed from seat and garment waist.

Claims 37-43 (cancelled). --